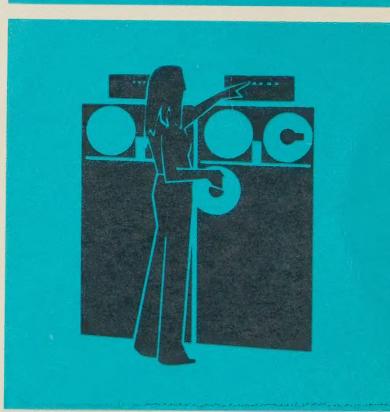
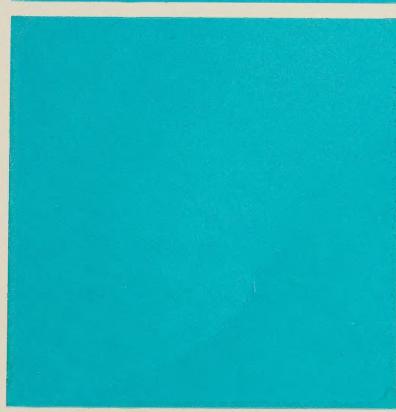
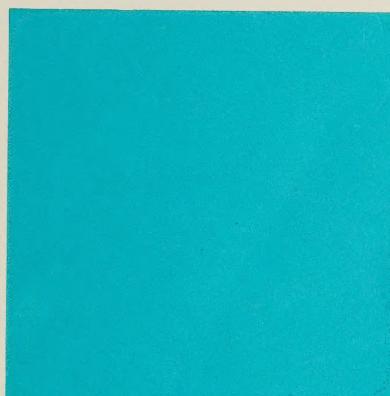
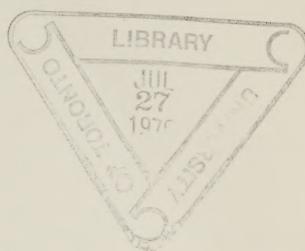


# Canada's trade in selected manufactured agricultural production inputs, 1945-77

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## CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS, 1945-77

Edward Suen

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## **ABSTRACT**

The value of Canadian exports in the selected manufactured production inputs was \$1,334 million in 1977 while that of imports was \$1,480 million, resulting in a trade deficit of \$146 million. The deficit was an improvement from that of 1976, \$271 million, and from 1975 when it reached \$339 million.

The United States had an 87-percent share in both exports and imports of the selected inputs. Fertilizers, mainly potash, were the most important export, followed by farm machinery and parts. On the import side, farm machinery and parts were the most significant, followed by agricultural chemicals and fertilizers, mainly phosphate rock. Twine and tires for farm tractors and implements made up the rest of the selected inputs.



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## FOREWORD

This report is the second of its kind to be published by the Policy, Planning and Economics Branch of Agriculture Canada and it summarizes trade statistics for a group of selected manufactured farm production inputs. The inputs included are farm machinery, fertilizers, fertilizer materials, agricultural chemicals, twine, and tires for farm tractors and implements.

In addition to statistics for the calendar years 1974 to 1977, averages for the 1969-73 period and a historical summary by years since 1945 are given. The data are presented in terms of value (Canadian dollars) and, where possible, of quantity, by commodity subclass, and by country of origin and of destination. Recent-year data are also provided for fertilizers, fertilizer materials, and agricultural chemicals, by sales year.

The statistics are the same as those published by Statistics Canada in the Trade of Canada reports: Exports by Commodities (monthly), Catalogue No. 65-004, and Imports by Commodities (monthly), Catalogue No. 65-007. Exports are valued f.o.b. at point of shipment. They include so-called re-exports, that is, imported items exported in almost unchanged form. Imports, including the "re-exports," also are valued f.o.b. at point of shipment. But goods of foreign origin in transit only have been excluded, if possible.

Another Policy, Planning and Economics Branch report, Canada's Trade in Agricultural Products, contains trade statistics on unmanufactured farm production inputs. These encompass animal feeds including oilseed products; breeding livestock (cattle); feeder cattle; chicks and poultts; hatching eggs; grain, grass, and forage seeds for sowing (excluding seed corn); seed potatoes; nursery stocks; and honey bees.

Users are invited to comment. They should note that in those tables where data are reported by country of origin or destination, totals include the values for any countries not identified separately. Also, data for 1977 are preliminary and subject to revision.

Purchased Input Markets  
Production Analysis Division  
Agricultural Development Directorate  
Policy, Planning and Economics Branch  
Agriculture Canada, Ottawa



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## CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS

### Summary

In 1977, Canada exported \$1,334 million worth of selected agricultural production inputs,<sup>1</sup> 14 percent more than the 1976 value of \$1,170 million. The 1976 exports were 12.2 percent higher than the \$1,043 million of 1975.

The value of imports of these inputs increased a mere 2.7 percent to \$1,480 million in 1977 from \$1,442 million in 1976. Between 1976 and 1975, this value had increased only 4.4 percent compared to the 1975 increase of 38.7 percent and the 1974 increase of 51.8 percent.

The decrease in the value of the Canadian dollar since late 1976 has had some effect on Canada's trade in farm inputs. Between 1974 and 1976, the average exchange rate for the U.S. dollar in terms of the Canadian dollar fell almost 10 percent (see Appendix B). This decrease helped to reduce Canada's input trade deficit in 1977 to \$146 million, a considerable improvement from the \$271 million deficit in 1976 and that of \$339 million in 1975 (see Table 33 on page 39).

Canada's major trading partner in these inputs is the United States, which accounted for 87 percent of both Canada's exports and imports in 1977. The respective percentages in 1976 were 85 and 87.

Input trade with the European Economic Community (EEC6) - Belgium, Luxembourg, France, West Germany, Italy, and the Netherlands - started with trade surpluses between 1945 and 1951, and with small deficits of between \$1 million and \$2 million from 1952 to 1958. In 1959, a year after the formation of EEC6, exports decreased to \$0.1 million resulting in a deficit of \$3.5 million. In 1976, exports of inputs increased to just under \$17 million but decreased 29 percent in 1977 to \$12 million. Imports of inputs, however, rose 23 percent to a new record of \$101 million in 1977 from the previous record of \$82 million in 1976.

Canada began two-way trade in inputs with Japan in 1962 and has shown a trade surplus ever since. Total exports of inputs to Japan in 1977 were valued at \$32.7 million while imports were \$14.5 million, leading to a trade surplus of \$18.2 million. The main export to Japan is fertilizer and the main import items, tractors and parts.

Canadian exports of inputs to the United Kingdom increased only slightly in 1977. The total export value increased 11.8 percent to \$8.5 million. This 1977 increase, however, is dwarfed by the 61.7-percent increase in 1976 and the 62.1-percent one in 1975. Also, imports of inputs from the United Kingdom rose only 0.2 percent in 1977, in contrast with the 26.5-percent decrease in 1976.

<sup>1</sup>The inputs included in this trade summary are farm machinery, fertilizer, fertilizer materials, agricultural chemicals, twine, and tires for tractors and implements, which collectively will be referred to as "inputs" hereafter in this paper. See Appendix A for a detailed breakdown of the components included under each of these categories.

## Exports

Fertilizer is the most important input that Canada exports. Its export value has almost consistently amounted to more than half of the total input export value since 1970.

In 1977, fertilizer exports increased 27 percent to a record high of \$730 million. The export value for 1976 was 21 percent higher than that of 1975. On a fertilizer sales year basis, i.e., July 1 to June 30, exports of fertilizers increased 24 percent in 1977-78 and 19 percent in 1976-77.

The main type of fertilizer exported is potassium chloride, or muriate of potash, which accounts for over half of Canada's fertilizer exports. The United States bought over 78 percent of all our exports of potassium chloride in 1977, compared with 82 percent in 1976. The EEC6 countries did not purchase any ammonium phosphate in 1977. This reversal resulted in an 82-percent decrease of Canadian fertilizer exports to the EEC6, a drop in value from \$10 million in 1976 to about \$2 million in 1977. The United Kingdom also cut back on its fertilizer buying from Canada: 63.8 percent in 1977. Brazil, however, boosted its purchases from \$11.8 in 1976 \$22.3 million in 1977.

The value of the second largest export input item, farm machinery and parts, reached \$589 million in 1977, an increase from \$569 million in 1976. This amount represents an increase of only 3.5 percent. The increase from 1975 to 1976 was about 5 percent. The recent increases are sharply lower than the 36- and 37-percent annual increases experienced in 1975 and 1974, respectively.

Since 1965, the United States has purchased about 90 percent of the value of Canadian farm machinery exports. The recent figures were 91 percent in 1977, 90 in 1976, 87 in 1975 and 94 in 1974. Countries of the EEC6 increased their farm machinery purchases from Canada 64 percent in 1977, while South Africa, Mexico, and Iran decreased theirs 49, 53, and 95 percent, respectively.

Canadian exports of agricultural chemicals (insecticides and rodenticides) decreased 29 percent in 1977, totaling only \$10.5 million. The United States decreased its purchases 23, Australia 78, and Ecuador 58 percent.

Exports of twine increased 46 percent in 1977 to \$2.2 million after a drop of 36 percent in 1976. Twine, however, accounted for only 0.2 percent of the value of Canadian farm input exports in 1977.

Exports of tires for tractors and implements decreased 74 percent in 1977 to \$2.1 million after an increase in 1976 of over 148 percent from 1975. The changes were mainly due to the rise and fall of tire purchases by the United States.

In summary, the United States is Canada's main buyer of farm inputs. The share of Canada's exports of inputs to the United States has ranged from 58 percent in 1945 to 92 percent in 1960. In 1977, 87 percent of Canada's input exports went to the United States, 2.5 percent to Japan, about 1 percent to the EEC6 and 0.6 percent to the United Kingdom. More than one hundred other countries purchased farm inputs from Canada in 1977.

## Imports

Canadian imports of farm inputs have increased from \$324 million in 1970 to almost \$1.5 billion in 1977. Between 1970 and 1977, the United States shipped from 80 to 87 percent of Canada's farm input imports. U.S. sales of inputs to Canada in 1977 were almost \$1.3 billion, of which farm machinery accounts for over \$1 billion, that is, 80 percent of the total. This level represents a slight drop of 1.2 percent from 1976, principally due to decreased farm machinery imports.

Tractor imports, including new and used tractors, engines, cabs, and parts decreased 6.9 percent to \$644 million in 1977 but still constituted 44 percent of Canadian imports of all farm inputs. Imports of new tractors decreased 6.8 percent in 1977, that of used tractors 39 percent.

Fertilizer imports, traditionally the second most important input, increased by 9.8 percent in calendar year 1977 to \$123 million, and 26.3 percent to \$144 million for the fertilizer sales year 1977-78. In contrast to these increases are the decreases of 19 percent for the 1976 calendar year and 18 percent for the 1976-77 fertilizer sales year. Phosphate rock remains the most important fertilizer import, constituting 45 percent of all 1977 fertilizer and fertilizer material imports and 49 percent of those of 1976.

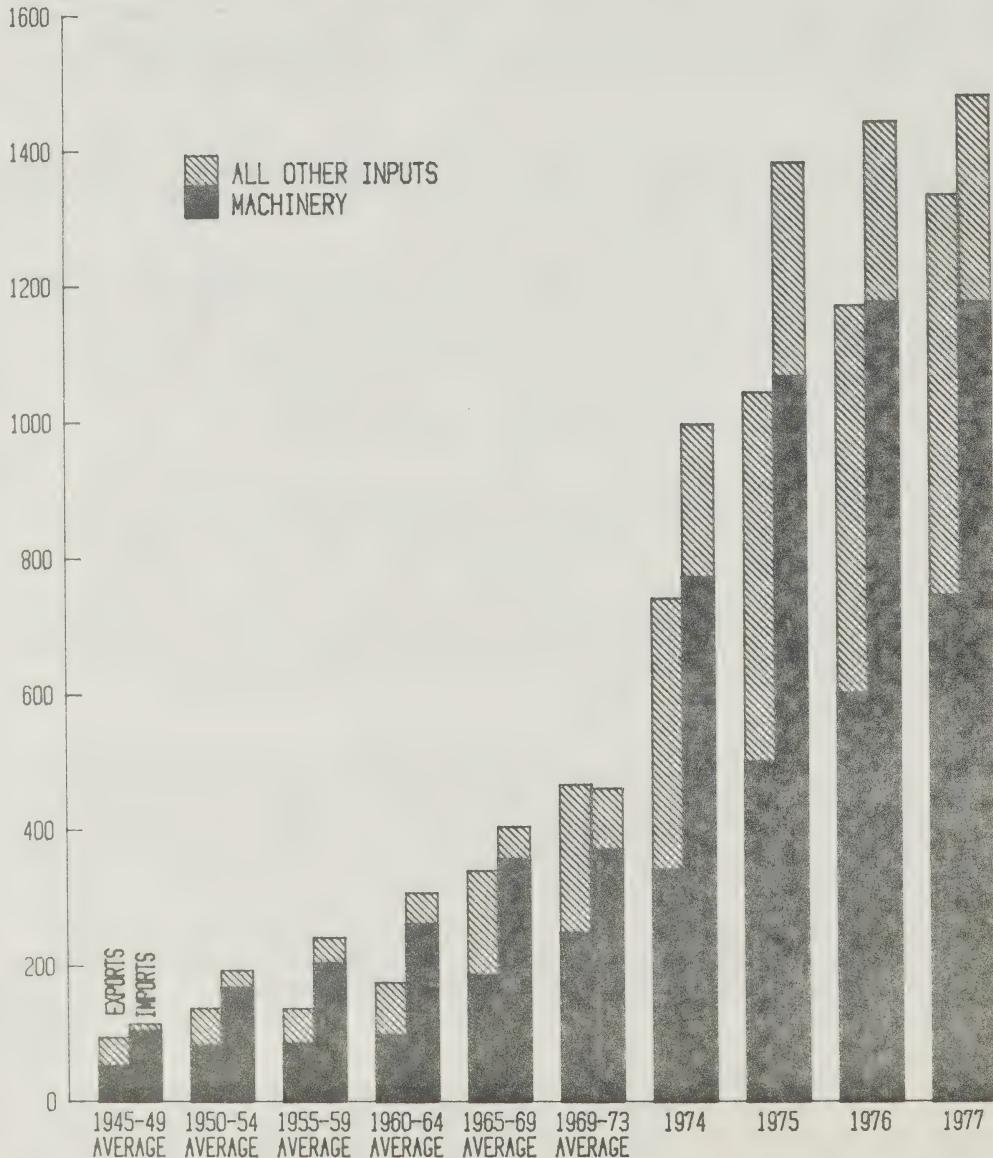
The value of agricultural chemical imports increased 16.1 percent to \$144 million in 1977. This increase compares with that in 1976 of 11.8 percent or \$124 million. On a chemicals sales year basis, i.e., October 1 to September 30, the increase in 1976-77 was 11.9 percent and 13.5 percent in 1975-76. Agricultural chemicals from the United States were 78 percent of the total import value of all agricultural chemicals (pesticides) in 1977, and 72 percent in 1976. In 1977, EEC6 shipments of agricultural chemicals to Canada were 12.8 percent of the total import value, while that of the United Kingdom was 7 percent.

Traditionally, twine imports have been about 2 percent of Canada's input imports. In 1977, these were valued at \$22.6 million, an increase of 40.3 percent from the \$16.1 million of 1976, but still far lower than the \$45 million of 1975. Canada's main sources of baler twine have traditionally been Portugal and Mexico, but the importance of Tanzania and Brazil have been increasing fast in recent years.

In summary, the United States remains Canada's largest supplier of farm input imports, providing between 84 and 87 percent during the period 1974 to 1977; the second largest, the EEC6, supplied between 6 and 7 percent.

FIGURE 1: CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL  
PRODUCTION INPUTS\*, AVERAGE VALUES, 1945-49 TO 1969-73,  
CALENDAR YEARS 1974 TO 1977

MILLIONS OF DOLLARS



\* TOTAL OF FARM MACHINERY, FERTILIZER, FERTILIZER MATERIALS, AGRICULTURAL CHEMICALS, TWINE, AND TIRES FOR TRACTORS AND IMPLEMENTS

FIGURE 2: CANADA - IMPORTS OF SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS, PERCENTAGE DISTRIBUTION BY COUNTRY OF ORIGIN, 1970 AND 1977

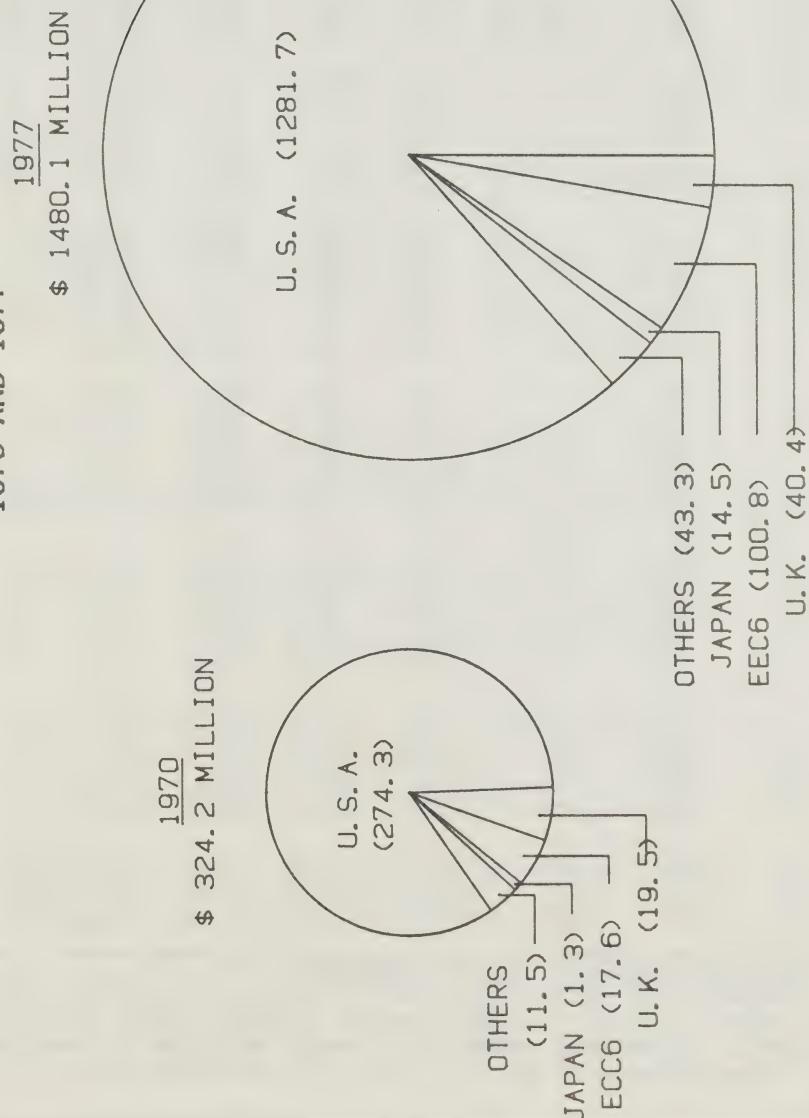


TABLE 1. EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO PRINCIPAL COUNTRIES, HISTORICAL SUMMARY, 1945-77<sup>a</sup>

Calendar Year	All Countries	U.S.	U.K.	EEC6 <sup>b</sup>	Japan	India	Oceania <sup>c</sup>	Mexico
- million dollars -								
1945	53.4	30.9	6.3	7.1	.6	1.1	-	
1946	65.2	38.6	3.4	5.9	1.0	1.0	.3	.6
1947	85.9	53.5	4.7	6.3	.4	1.4	.8	.6
1948	125.7	89.3	3.8	3.6	.0	.5	.8	1.3
1949	141.6	105.2	4.1	5.1	-	1.4	.6	.7
1950	133.3	109.1	.9	2.8	.0	2.6	.4	.8
1951	151.9	126.5	.6	2.1	-	.5	.7	1.2
1952	154.6	131.0	.4	.7	.0	.3	.7	1.6
1953	123.7	106.8	.2	1.2	.0	.1	.4	1.0
1954	123.1	96.5	.2	1.6	.0	.4	.2	2.0
1955	135.3	111.9	.3	2.3	.0	.0	.6	2.4
1956	119.6	101.2	.3	1.3	.0	.0	.7	2.5
1957	120.7	98.6	.2	1.6	.0	1.7	.9	1.8
1958	145.8	131.8	.1	1.0	.0	.0	.8	1.0
1959	164.7	151.5	.1	.1	.3	1.0	.7	1.1
1960	141.	129.8	.2	.2	.0	2.4	1.5	.6
1961	144.3	129.5	.4	2.0	.0	.0	2.5	1.0
1962	158.0	145.1	1.6	1.4	.3	.0	1.2	1.0
1963	198.4	177.4	1.9	.5	6.5	-	1.7	.8
1964	233.4	201.0	2.6	.9	8.2	-	3.8	.8
1965	283.1	248.9	2.2	7.2	9.5	1.3	4.7	1.6
1966	335.2	292.7	1.7	2.0	12.0	1.5	6.9	2.0
1967	354.0	312.7	1.6	.9	10.4	5.5	5.3	1.7
1968	350.7	297.0	1.9	12.3	12.7	9.7	5.3	2.2
1969	375.9	319.4	1.5	13.4	12.9	7.3	4.3	2.6
1970	411.0	350.7	.9	7.1	14.3	12.3	4.0	1.3
1971	447.5	373.3	1.4	8.1	15.7	15.4	5.6	1.9
1972	497.3	423.4	1.9	8.9	15.3	12.9	4.6	2.2
1973	601.2	523.5	1.9	15.5	16.5	9.7	8.5	1.5
1974	840.5	733.1	2.9	11.1	19.1	10.1	9.7	2.2
1975	1,042.8	890.8	4.7	15.1	18.0	4.6	19.9	8.7
1976	1,170.3	997.9	7.6	16.7	31.2	8.8	17.3	7.2
1977	1,334.0	1,155.7	8.5	11.7	32.7	11.2	21.3	3.3

<sup>a</sup>"0" indicates exports of less than \$100,000.  
 "—" indicates the absence of exports.

<sup>b</sup>In this report, the EEC6 includes only West Germany, France, Italy, the Netherlands, Belgium and Luxembourg. Although the United Kingdom, Denmark, and Ireland became members of the EEC in 1972, they are shown separately in this report.

<sup>c</sup>Oceania includes Australia, New Zealand, and their dependencies.

TABLE 2 - IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM PRINCIPAL COUNTRIES, HISTORICAL SUMMARY, 1945-77<sup>a</sup>

Calendar Year	All Countries	U.S.	U.K.	EEC6	Japan	Sweden	Switzerland	Mexico
- million dollars -								
1945	54.3	53.7	.1	.0	-	.2	.0	-
1946	72.8	71.7	.2	.2	-	.3	.0	-
1947	112.3	109.6	.3	1.8	.0	.4	.1	.0
1948	146.6	142.5	1.9	1.7	.0	.3	.0	0
1949	186.0	179.6	3.6	1.8	.0	.3	.1	.0
1950	171.0	159.7	8.8	2.1	-	.2	.0	.0
1951	205.9	196.9	7.1	1.4	.0	.4	.0	.0
1952	208.9	199.6	6.7	1.8	.0	.4	.0	.0
1953	221.8	212.7	5.6	2.4	.0	.5	.0	.0
1954	158.6	150.0	5.3	2.0	.0	.5	.0	.1
1955	194.9	186.6	4.2	2.7	.0	.5	.0	.3
1956	250.3	241.0	4.2	2.8	.0	.6	.0	.5
1957	230.8	217.5	7.5	3.8	.1	.5	.1	.3
1958	226.8	213.6	7.7	3.4	.1	.6	.0	.1
1959	304.7	280.4	17.2	3.6	.3	.9	.3	.1
1960	263.6	237.9	16.0	5.3	.3	1.0	.2	.2
1961	273.9	242.1	20.4	6.1	.2	.9	.3	.3
1962	292.8	258.2	21.0	8.1	.3	1.2	.4	.1
1963	361.1	322.9	21.8	9.9	.2	1.1	.8	.6
1964	344.3	309.8	15.0	10.5	.1	.6	1.5	1.0
1965	359.2	323.9	17.5	8.8	.1	.6	2.0	.7
1966	426.0	380.4	19.1	16.5	.1	.3	2.0	1.0
1967	439.8	385.1	23.3	18.6	.2	.8	2.5	1.1
1968	401.0	345.1	22.1	17.2	.5	4.7	3.4	1.0
1969	396.3	335.3	25.4	14.2	1.4	1.2	9.1	.7
1970	324.2	274.3	19.5	17.6	1.3	1.6	2.4	.6
1971	408.6	330.1	23.2	24.8	2.6	3.0	5.9	1.4
1972	519.3	411.8	28.2	29.6	3.7	5.1	3.8	2.7
1973	655.6	562.5	30.4	37.3	3.6	3.0	3.9	4.5
1974	995.9	830.3	36.6	62.0	8.7	3.9	3.3	10.3
1975	1,381.2	1,155.3	54.8	101.6	13.3	10.9	2.8	1.0
1976	1,441.5	1,259.2	40.3	81.5	14.4	5.3	1.1	3.0
1977	1,480.1	1,281.1	40.4	100.8	14.5	5.0	3.2	5.0

<sup>a</sup>"0" indicates imports less than \$100,000.  
"—" indicates the absence of imports.

TABLE 3. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO ALL COUNTRIES,  
BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	217,875	398,467	542,113	568,758	588,894
Agricultural Chemicals	n.a. <sup>a</sup>	6,656	16,374	14,768	10,538
Fertilizers and Materials	245,022	431,713	478,276	577,234	730,319
All Twine	1,898	2,536	2,362	1,506	2,205
Tractor and Implement Tires	1,780	1,137	3,751	8,059	2,077
Total	466,575	840,509	1,042,876	1,170,325	1,334,033

<sup>a</sup>n.a. = not available.

TABLE 4. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM ALL  
COUNTRIES BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS  
1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	371,033	771,877	1,066,399	1,175,795	1,175,521
Agricultural Chemicals	36,888	79,665	110,703	123,808	143,812
Fertilizers and Materials	36,876	72,775	138,810	112,152	123,067
All Twine	11,144	55,061	45,014	16,106	22,565
Tractor and Implement Tires	4,857	16,555	20,241	13,608	15,157
Total	460,798	995,933	1,381,167	1,441,469	1,480,122

TABLE 5. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE UNITED STATES BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	206,053	374,613	474,006	511,058	534,721
Agricultural Chemicals	n.a. <sup>a</sup>	3,817	10,571	8,027	6,178
Fertilizers and Materials	188,700	351,389	401,275	469,722	611,490
All Twine	1,698	2,244	1,440	1,063	1,708
Tractor and Implement Tires	1,643	1,039	3,602	7,991	1,579
Total	398,094	733,102	890,894	997,861	1,155,676

<sup>a</sup>n.a. = not available.

TABLE 6. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE UNITED STATES BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	318,979	675,262	922,173	1,042,577	1,030,716
Agricultural Chemicals	25,270	58,881	74,084	89,051	111,607
Fertilizers and Materials	31,213	70,293	130,822	109,359	119,079
All Twine	2,441	9,828	8,693	4,843	4,885
Tractor and Implement Tires	4,700	16,129	19,523	13,347	14,850
Total	382,603	830,393	1,155,295	1,259,177	1,281,137

TABLE 7. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE UNITED KINGDOM BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	1,186	2,580	3,629	6,471	7,890
Agricultural Chemicals	n.a. <sup>a</sup>	109	382	74	231
Fertilizers and Materials	318	218	622	867	314
All Twine	14	40	12	147	74
Tractor and Implement Tires	1	-	64	3	-
Total	1,519	2,947	4,709	7,562	8,509

<sup>a</sup>n.a. = not available.

TABLE 8. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE UNITED KINGDOM BY MAJOR GROUPINGS, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	21,925	28,387	42,136	31,454	30,192
Agricultural Chemicals	2,582	5,845	10,689	8,012	9,545
Fertilizers and Materials	130	234	244	156	234
All Twine	689	1,905	1,728	681	431
Tractor and Implement Tires	13	192	9	16	5
Total	25,339	36,563	54,806	40,319	40,407

TABLE 9. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE EUROPEAN ECONOMIC COMMUNITY, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	1,423	4,555	4,729	4,892	8,040
Agricultural Chemicals	n.a. <sup>a</sup>	870	2,056	1,854	1,614
Fertilizers and Materials	9,124	5,589	8,232	9,907	1,831
All Twine	21	59	74	63	156
Tractor and Implement Tires	34	0	46	2	15
Total	10,602	11,073	15,137	16,718	11,656

<sup>a</sup>n.a. = not available.

TABLE 10. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE EUROPEAN ECONOMIC COMMUNITY, AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	21,040	45,091	61,734	56,359	80,369
Agricultural Chemicals	2,942	10,259	21,455	23,826	18,432
Fertilizers and Materials	307	906	6,069	270	320
All Twine	354	5,611	11,952	941	1,459
Tractor and Implement Tires	85	89	393	103	187
Total	24,728	61,956	101,602	81,499	100,767

TABLE 11. TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO JAPAN,  
AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	249	320	591	828	1,872
Agricultural Chemicals	n.a. <sup>a</sup>	18	-	-	58
Fertilizers and Materials	14,675	18,774	17,376	30,396	30,741
All Twine	4	13	27	13	6
Tractor and Implement Tires	1	-	-	-	-
Total	14,929	19,125	17,994	31,237	32,677

<sup>a</sup>n.a. = not available.

TABLE 12. TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM JAPAN,  
AVERAGE VALUE 1969-73 - CALENDAR YEARS 1974-77

Production Inputs	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery	1,979	8,205	11,562	12,818	13,581
Agricultural Chemicals	323	182	242	275	342
Fertilizers and Materials	21	5	6	1,027	87
All Twine	208	270	1,469	313	467
Tractor and Implement Tires	12	4	20	3	27
Total	2,543	8,666	13,299	14,436	14,504

TABLE 13 - EXPORTS OF FARM MACHINERY BY COUNTRY OF DESTINATION, AVERAGE 1969-73  
CALENDAR YEARS 1974-77<sup>a</sup>

Country	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
United States	206,053	374,613	474,006	511,058	534,721
Australia	978	4,097	10,772	11,542	14,438
EEC6	1,423	4,555	4,729	4,892	8,040
South Africa	921	2,599	5,747	6,038	3,080
United Kingdom	1,186	2,580	3,629	6,471	7,890
Mexico	1,887	2,283	8,768	7,106	3,339
Sweden	243	1,234	708	516	515
Iran	67	175	1,123	3,718	195
New Zealand	188	656	1,142	733	1,522
Japan	249	320	591	828	1,872
Others	4,680	5,356	30,898	15,856	13,282
Total	217,875	398,467	542,113	568,758	588,894

<sup>a</sup>Dollar value includes that for parts.

TABLE 14. IMPORTS OF FARM MACHINERY BY COUNTRY OF ORIGIN, AVERAGE 1969-73 -  
CALENDAR YEARS 1974-77<sup>a</sup>

Country	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
United States	318,979	675,262	922,173	1,042,577	1,030,716
United Kingdom	21,925	28,387	42,136	31,454	30,192
EEC6	21,040	45,091	61,734	56,359	80,369
Denmark	1,140	3,885	3,786	2,974	3,312
Sweden	2,703	3,757	10,426	5,125	4,900
Japan	1,979	8,205	11,562	12,818	13,581
Australia	257	454	407	494	318
Norway	987	2,131	2,891	2,938	2,171
Romania	1,195	1,007	2,482	2,326	1,209
U.S.S.R.	379	2,620	6,352	13,916	4,067
Others	449	1,078	2,450	4,814	4,686
Total	371,033	771,877	1,066,399	1,175,795	1,175,521

<sup>a</sup>Dollar value includes that for parts.

TABLE 15. EXPORTS OF FARM MACHINERY, ALL COUNTRIES, BY CLASS AND VALUE,  
AVERAGE 1969-73 - CALENDAR YEARS 1974-77<sup>a</sup>

Farm Machinery	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Soil Preparation Machinery	34,740	66,279	91,923	94,461	90,111
Crop Protection Machinery	11,136	17,763	24,981	29,667	26,387
Hay Harvesting Machinery (Combines)	120,372 (58,402)	189,184 (102,297)	256,120 (144,112)	264,318 (191,689)	277,167 (204,607)
Market Preparation Machinery	298	420	206	1,817	475
Dairy and Poultry Equipment	3,666	2,760	2,152	4,253	4,105
Other Agricultural Equipment	11,943	44,856	42,724	49,791	56,993
Tractors, Parts, and Accessories	35,720	77,205	124,007	124,451	133,656
Total	217,875	398,467	542,113	568,758	588,894

<sup>a</sup>Dollar value includes that for parts.

TABLE 16. IMPORTS OF FARM MACHINERY, ALL COUNTRIES, BY CLASS AND VALUE,  
AVERAGE 1969-73 - CALENDAR YEARS 1974-77<sup>a</sup>

Farm Machinery	Average 1969-73	1974	1975	1976	1977
- thousand dollars -					
Soil Preparation Machinery	33,065	60,118	97,414	117,256	119,232
Crop Protection Machinery	8,699	17,779	23,732	28,144	30,230
Hay Harvesting Machinery (Combines)	77,532 (20,929)	160,727 (29,064)	227,661 (53,772)	224,347 (95,930)	249,910 (129,232)
Market Preparation Machinery	12,305	27,032	24,741	21,247	26,149
Dairy and Poultry Equipment	12,961	27,428	26,670	25,644	29,278
Other Agricultural Equipment	28,061	61,742	61,222	67,592	76,488
Tractors, Engines, Cabs and Parts (New Wheel Tractors) (Used Tractors)	197,410 (104,510) (6,002)	417,051 (220,164) (18,297)	604,959 (340,338) (28,555)	691,565 (398,878) (29,424)	644,234 (371,861) (17,869)
Total	371,033	771,877	1,066,399	1,175,795	1,175,521

<sup>a</sup>Dollar value includes that for parts.

TABLE 17. EXPORTS OF FERTILIZERS AND THEIR MATERIALS BY COUNTRY OF DESTINATION,  
VALUE AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77<sup>a</sup>

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000 000 tons	188,700 7,527	351,389 8,360	401,275 7,080	469,722 8,735	611,490 10,272
EEC6					
\$000 000 tons	9,124 250	5,589 200	8,232 62	9,907 99	1,831 34
Japan					
\$000 000 tons	14,675 630	18,774 876	17,376 645	30,396 602	30,741 679
India					
\$000 000 tons	11,472 350	10,067 486	4,513 114	8,554 172	11,182 239
Singapore					
\$000 000 tons	1,057 48	2,520 162	1,398 68	6,114 122	7,274 153
P.R. of China					
\$000 000 tons	757 18	4,239 216	2,894 142	-	2,497 125
Indonesia					
\$000 000 tons	-	5,404 17	-	-	-
South Korea					
\$000 000 tons	2,945 350	5,503 260	10,544 381	11,691 234	10,444 218
Oceania					
\$000 000 tons	3,763 188	1,483 73	4,601 157	4,394 80	4,555 99
Brazil					
\$000 000 tons	2,238 91	10,168 465	6,212 239	11,812 234	22,317 433
Taiwan					
\$000 000 tons	427 19	2,570 118	1,597 61	8,402 169	2,501 54
Total (All Countries)					
\$000 000 tons	245,022 9,726	431,713 11,534	478,276 9,251	577,234 10,673	730,319 12,576

<sup>a</sup>"-" indicates the absence of imports.

TABLE 18. IMPORTS OF FERTILIZERS AND THEIR MATERIALS BY COUNTRY OF ORIGIN, VALUE AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77<sup>a</sup>

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000 000 tons	31,213 3,234	70,293 4,006	130,822 3,960	109,359 3,135	119,079 3,581
Chile					
\$000 000 tons	441 9	1,008 9	1,088 8	1,093 9	1,588 9
EEC 6					
\$000 000 tons	307 13	906 6	6,069 45	270 2	320 3
Netherlands Antilles					
\$000 000 tons	270 6	280 4	226 3	210 4	232 4
United Kingdom					
\$000 000 tons	130 .5	234 .6	244 .3	156 .4	234 .5
Total (All Countries)					
\$000 000 tons	36,876 3,711	72,775 4,026	138,810 4,024	112,152 3,164	123,067 3,682

<sup>a</sup>These data include some imports of phosphate rock for uses other than as fertilizers.

TABLE 19. EXPORTS OF FERTILIZERS AND THEIR MATERIALS TO ALL COUNTRIES, BY CLASS,  
VALUE AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Item <sup>a</sup>	Average 1969-73	1974	1975	1976	1977
Urea \$000 000 tons	16,279 255.6	19,282 161.6	22,830 133.5	25,275 201.1	72,742 595.0
Ammonia \$000 tons	6,688 128.2	10,489 105.6	21,918 127.9	29,927 249.4	71,335 632.5
Nitrogen Solutions n.e.s. \$000 000 tons	9,265 74.1	9,634 110.6	11,406 101.1	7,861 92.5	7,171 75.6
Ammonium Sulphate \$000 000 tons	6,841 199.1	9,769 144.4	13,367 140.2	13,250 201.9	12,307 197.1
Ammonium Nitrate \$000 000 tons	15,515 402.2	17,824 244.7	18,470 179.1	18,366 208.3	27,556 290.5
Nitrogenous Fertilizers n.e.s. \$000 000 tons	39,905 722.8	70,264 639.7	84,221 494.8	64,940 517.7	61,963 564.7
Potassium Chloride (Muriate of Potash) \$000 000 tons	137,152 7,682.1	275,706 9,969.5	292,195 7,983.0	407,711 9,125.6	467,302 10,142.1
Prepared Fertilizer Mixtures \$000 000 tons	10,261 200.9	13,104 106.2	11,113 71.1	7,672 54.0	8,309 58.6
Fertilizers n.e.s. \$000 000 tons	3,116 61.1	5,641 52.1	2,756 20.3	2,232 22.5	1,634 20.3
Total \$000 000 tons	245,022 9,726.1	431,713 11,534.3	478,276 9,250.9	577,234 10,673.0	730,319 12,576.4

<sup>a</sup>n.e.s. = not elsewhere specified.

TABLE 19a. EXPORTS OF FERTILIZERS AND THEIR MATERIALS TO ALL COUNTRIES, BY CLASS,  
VALUE AND QUANTITY, FERTILIZER SALES YEARS,<sup>a</sup> 1974-75 TO 1977-78

Item <sup>b</sup>	1974-75	1975-76	1976-77	1977-78
Urea \$000 000 tons	23,420 152.9	19,808 133.1	37,876 207.2	90,349 739.1
Ammonia \$000 tons	16,663 103.6	20,096 132.3	41,065 250.0	61,926 447.2
Nitrogen Solutions n.e.s. \$000 000 tons	11,835 101.7	8,681 97.9	7,828 93.8	7,140 66.6
Ammonium Sulphate \$000 000 tons	12,498 130.9	13,535 183.4	12,260 202.6	13,446 190.4
Ammonium Nitrate \$000 000 tons	19,690 208.2	18,229 201.4	23,737 208.8	31,988 110.4
Nitrogenous Fertilizers n.e.s. \$000 000 tons	86,678 558.1	69,951 477.1	63,620 518.0	62,552 519.9
Potassium Chloride (Muriate of Potash) \$000 000 tons	285,946 9,010	351,086 7,939	409,734 9,125	472,924 10,304
Prepared Fertilizer Mixtures \$000 000 tons	12,744 80.7	8,258 54.1	8,395 54.4	10,570 80.8
Fertilizers n.e.s. \$000 000 tons	3,734 29.3	2,195 20.8	2,315 22.8	2,161 15.1
Total \$000 000 tons	473,208 10,327	511,840 9,249	606,830 10,683	753,056 12,473.5

<sup>a</sup>Fertilizer sales year is from July 1 to June 30.

<sup>b</sup>n.e.s. = not elsewhere specified.

TABLE 20. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS, VALUE, AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Item <sup>a</sup>	Average 1969-73	1974	1975	1976	1977
Urea \$000 000 tons	600 10.2	145 .5	2,719 24.0	5,009 51.0	7,665 72.3
Sodium Nitrate \$000 000 tons	685 13.9	1,863 18.1	2,088 14.8	2,491 19.5	3,224 26.9
Nitrogen Solutions \$000 000 tons	77 2.2	13 .1	190 1.6	2,590 30.4	734 10.1
Ammonium Sulphate \$000 000 tons	917 40.2	2,269 40.0	3,277 43.5	2,541 43.8	1,761 20.8
Nitrogenous Fertilizers n.e.s. \$000 000 tons	565 7.7	1,358 10.0	2,067 13.6	2,979 24.0	1,104 13.7
Superphosphate 22% or less P <sub>2</sub> O <sub>5</sub> \$000 000 tons	30 2.5	566 12.0	194 3.2	126 1.5	50 1
Superphosphate more than 22% P <sub>2</sub> O <sub>5</sub> \$000 000 tons	1,857 46.6	1,856 23.1	6,581 47.2	2,384 28.9	2,230 22.7
Phosphatic Fertilizers n.e.s. \$000 000 tons	4,571 52.0	10,236 67.4	15,361 90.7	19,297 155.3	24,920 297.6
Phosphate Rock <sup>b</sup> \$000 000 tons	19,513 3,355.8	40,368 3,689.2	85,170 3,618.1	54,472 2,631.0	55,469 2,938.4
Potassium Chloride (Muriate of Potash) \$000 000 tons	1,179 45.0	53 .3	95 .4	269 4.7	2,155 46.8

- continued -

TABLE 20. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS, VALUE, AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77 (continued)

Item <sup>a</sup>	Average 1969-73	1974	1975	1976	1977
Potassium Sulphate \$000 000 tons	980 24.2	1,396 24.4	960 11.5	776 8.6	1,232 16.3
Potassic Fertilizers n.e.s. \$000 000 tons	765 34.1	1,670 56.9	2,365 49.0	2,449 49.7	3,789 73.5
Prepared Fertilizer Mixtures \$000 000 tons	3,560 39.3	8,194 55.4	11,614 60.0	8,625 48.2	10,018 63.4
Fertilizers n.e.s. \$000 000 tons	1,527 37.3	2,788 28.3	6,129 46.9	8,144 67.3	8,716 78.5
Total \$000 000 tons	36,876 3,711.0	72,775 4,026.0	138,810 4,024.4	112,152 3,163.9	123,067 3,682.0

<sup>a</sup>n.e.s. = not elsewhere specified.

<sup>b</sup>These data include some imports of phosphate rock for uses other than as fertilizers.

TABLE 20a. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS, VALUE, AND QUANTITY, FERTILIZER SALES YEARS<sup>a</sup> 1974-75 TO 1977-78

Item <sup>b</sup>	1974-75	1975-76	1976-77	1977-78
Urea \$000 000 tons	561 2.2	4,001 35.5	7,924 78.2	10,903 82.1
Sodium Nitrate \$000 000 tons	1,926 15.0	2,443 18.4	2,910 22.2	2,829 20.3
Nitrogen Solutions \$000 000 tons	52 0.4	1,653 18.9	1,675 19.1	320 3.4
Ammonium Sulphate \$000 000 tons	2,642 33.7	3,171 45.8	2,613 42.2	1,491 19.3
Nitrogenous Fertilizers n.e.s. \$000 000 tons	2,301 14.2	3,285 26.6	1,272 9.2	2,911 26.1
Superphosphate 22% or less P <sub>2</sub> O <sub>5</sub> \$000 000 tons	415 6.7	171 1.8	-	500 4.1
Superphosphate more than 22% P <sub>2</sub> O <sub>5</sub> \$000 000 tons	2,973 25.2	5,979 48.1	1,965 25.2	3,536 37.3
Phosphatic Fertilizers n.e.s. \$000 000 tons	13,720 75.4	19,079 129.7	23,440 201.2	31,405 208.4
Phosphate Rock <sup>c</sup> \$000 000 tons	71,332 3,970	77,735 3,369	47,742 2,200	66,136 2,960
Potassium Chloride (Muriate of Potash) \$000 000 tons	42 0.4	119 0.7	904 17.0	968 21.6

- continued -

TABLE 20a. IMPORTS OF FERTILIZERS AND THEIR MATERIALS FROM ALL COUNTRIES, BY CLASS,  
VALUE AND QUANTITY, FERTILIZER SALES YEARS<sup>a</sup> 1974-75 TO 1977-78 (conclusion)

Item <sup>b</sup>	1974-75	1975-76	1976-77	1977-78
Potassium Sulphate \$000 000 tons	1,237 17.9	745 8.1	762 8.3	2,390 21.1
Potassic Fertilizers n.e.s. \$000 000 tons	1,667 45.6	3,330 62.2	2,494 52.3	4,821 75.2
Prepared Fertilizer Mixtures \$000 000 tons	11,931 62.0	9,267 54.8	10,364 69.0	12,293 61.3
Fertilizers n.e.s. \$000 000 tons	5,164 39.0	7,417 60.7	9,675 87.0	4,452 36.1
Total \$000 000 tons	115,964 4,308	138,363 3,879	113,772 2,789	144,955 3,557

<sup>a</sup>Fertilizer sales year is from July 1 to June 30.

<sup>b</sup>n.e.s. = not elsewhere specified.

These data include some imports of phosphate rock for uses other than as fertilizers.

TABLE 21. EXPORTS OF AGRICULTURAL CHEMICALS<sup>a</sup> BY COUNTRY OF DESTINATION,  
VALUE, AND QUANTITY - CALENDAR YEARS 1974-77

Country	1974	1975	1976	1977
United States				
\$000	3,817	10,571	8,027	6,178
000 1b	3,574	8,361	5,247	4,700
EEC6				
\$000	870	2,056	1,854	1,614
000 1b	457	825	853	699
United Kingdom				
\$000	109	382	74	231
000 1b	86	140	52	99
Iran				
\$000	137	-	-	-
000 1b	56	-	-	-
Hong Kong				
\$000	107	25	28	-
000 1b	296	126	105	-
Australia				
\$000	160	253	590	132
000 1b	87	159	297	55
Colombia				
\$000	187	405	80	151
000 1b	196	399	17	33
Ecuador				
\$000	356	180	107	45
000 1b	51	26	26	9
Cuba				
\$000	208	1,125	1,205	-
000 1b	123	409	619	-
South Africa				
\$000	57	70	225	34
000 1b	146	65	163	19
Total (All Countries)				
\$000	6,656	16,374	14,768	10,538
000 1b	5,820	11,133	10,009	6,988

<sup>a</sup>Includes only insecticides and rodenticides that were not classified as exports until 1973; therefore, the 1969-73 average is not available.

TABLE 21a. EXPORTS OF AGRICULTURAL CHEMICALS BY COUNTRY OF DESTINATION, VALUE, AND QUANTITY, CHEMICAL SALES YEARS,<sup>a</sup> 1974-75 TO 1976-77

Country	1974-75	1975-76	1976-77
United States			
\$000	9,865	8,905	6,941
000 lb	7,235	6,962	5,073
EEC6			
\$000	2,216	1,145	2,239
000 lb	975	343	1,178
United Kingdom			
\$000	235	62	232
000 lb	66	26	100
Australia			
\$000	182	612	272
000 lb	154	319	88
Colombia			
\$000	590	45	186
000 lb	593	10	40
Ecuador			
\$000	259	103	40
000 lb	35	25	8
South Africa			
\$000	6	67	254
000 lb	4	62	178
Total (All Countries)			
\$000	15,885	14,417	12,148
000 lb	10,473	10,820	8,188

<sup>a</sup>Chemical sales year is from October 1 to September 30.

TABLE 22. IMPORTS OF AGRICULTURAL CHEMICALS BY COUNTRY OF ORIGIN, VALUE, AND QUANTITY, AVERAGE 1969-73 - CALENDAR YEARS 1974-77<sup>a</sup>

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000	25,270	58,881	74,084	89,051	111,607
000 1b	68,805	128,935	130,809	238,518	180,184
EEC6					
\$000	2,942	10,259	21,455	23,826	18,432
000 1b	9,926	17,727	16,473	22,196	11,282
United Kingdom					
\$000	2,582	5,845	10,689	8,012	9,545
000 1b	3,313	6,501	15,659	7,041	10,544
Denmark					
\$000	377	931	1,655	966	794
000 1b	1,004	1,059	1,339	833	839
Switzerland					
\$000	4,917	3,173	2,212	842	2,915
000 1b	3,701	2,315	1,221	486	1,941
Yugoslavia					
\$000	330	60	-	-	-
000 1b	260	44	-	-	-
Japan					
\$000	323	182	242	275	342
000 1b	670	466	290	232	158
Peru					
\$000	47	68	100	111	69
000 1b	134	123	159	174	84
Total (All Countries)					
\$000	36,888	79,665	110,703	123,808	143,812
000 1b	88,250	157,332	166,110	270,085	210,990

<sup>a</sup>"-" indicates the absence of imports.

TABLE 23. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND VALUE, AVERAGE 1969-73 - CALENDAR YEARS 1974-77<sup>a</sup>

Item <sup>b</sup>	Average 1969-73	- thousand dollars -			
		1974	1975	1976	1977
Aldrin, Technical	30	23	-	-	-
D.D.T., Technical	52	5	-	3	-
Derivatives of Hydrocarbon n.e.s.	5,483	10,503	10,361	17,880	15,513
2,4-Dichlorophenoxyacetic acid, Technical	234	513	487	796	2,099
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	1,106	2,406	4,091	3,084	2,067
Dithiocarbamates	320	714	7,877	12,363	23,019
D.D.T. Dusts, Solutions and Powders	22	67	150	-	19
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	218	516	570	632	642
Dithiocarbamates, Formulated	867	1,342	2,148	1,163	1,517
Mercurial Fungicides (except seed treatments)	196	143	125	120	249
Fungicides n.e.s. (except seed treatments)	1,712	2,598	3,364	2,589	3,616
Organic Mercurial Seed Treatments	28	35	-	12	33
Other Agricultural Dusts and Sprays (except herbicides)	705	466	1,045	495	877
Herbicides Based on Chlorate, Borate or 2,4,5-T	149	859	1,187	720	1,051
2,4-D Ester and Amine Dusts and Formulates	631	807	3,716	2,382	777
Herbicides n.e.s.	18,339	42,726	56,382	66,945	74,432
Insecticides and Rodenticides n.e.s.	6,796	15,942	19,200	14,624	17,901
Total	36,888	79,665	110,703	123,808	143,812

<sup>a</sup>"-" indicates the absence of imports.

<sup>b</sup>n.e.s. = not elsewhere specified.

TABLE 23a. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND VALUE, CHEMICAL SALES YEARS,<sup>a</sup> 1974-75 TO 1976-77<sup>b</sup>

Item <sup>c</sup>	1974-75	1975-76	1976-77
- thousand dollars -			
Aldrin, Technical	21	-	-
D.D.T., Technical	-	3	-
Derivatives of Hydrocarbon n.e.s.	11,178	15,801	13,082
2,4-Dichlorophenoxyacetic Acid, Technical	642	731	944
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	3,312	4,338	3,353
Dithiocarbamates	6,202	12,151	15,482
D.D.T. Dusts, Solutions and Powders	180	-	19
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	560	362	745
Dithiocarbamates, Formulated	2,393	1,175	1,375
Mercurial Fungicides (except seed treatments)	125	90	252
Fungicides n.e.s. (except seed treatments)	3,553	2,700	3,733
Organic Mercurial Seed Treatments	-	12	17
Other Agricultural Dusts and Sprays (except herbicides)	936	585	851
Herbicides Based on Chlorate, Borate or 2,4,5-T	1,045	803	947
2,4-D Ester and Amine Dusts and Formulates	3,653	2,691	801
Herbicides n.e.s.	54,351	66,103	77,492
Insecticides and Rodenticides n.e.s.	19,743	14,984	17,959
Total	107,894	122,511	137,052

<sup>a</sup>Chemicals sales year is from October 1 to September 30.

<sup>b</sup>"-" indicates the absence of imports.

<sup>c</sup>n.e.s. = not elsewhere specified.

TABLE 24. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND QUANTITY AVERAGE 1969-73, CALENDAR YEARS 1974-77<sup>a</sup>

Item <sup>b</sup>	Average 1969-73	- thousand pounds -			
		1974	1975	1976	1977
Aldrin, Technical	25	16	-	-	-
D.D.T.	282	23	-	32,640	-
Derivatives of Hydrocarbon n.e.s.	44,695	69,674	49,313	112,487	78,781
2,4-Dichlorophenoxyacetic Acid, Technical	845	1,029	555	1,057	1,481
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	2,914	2,976	3,280	2,685	3,384
Dithiocarbamates	546	906	3,342	6,044	5,873
D.D.T. Dusts, Solutions and Powders	170	211	650	-	40
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	595	503	404	513	510
Dithiocarbamates, Formulated	3,207	2,118	2,382	1,269	1,427
Mercurial Fungicides (except seed treatments)	162	136	152	64	224
Fungicides n.e.s. (except seed treatments)	2,167	3,303	3,224	2,025	2,568
Organic Mercurial Seed Treatments	29	77	-	35	20
Other Agricultural Dusts and Sprays (except herbicides)	2,008	671	1,351	703	996
Herbicides Based on Chlorate, Borate or 2,4,5-T	1,033	1,807	2,784	1,294	1,814
2,4-D Ester and Amine Dusts and Formulates	987	1,454	6,034	4,309	846
Herbicides n.e.s.	19,211	47,491	65,779	83,632	90,618
Insecticides and Rodenticides n.e.s.	9,374	25,135	26,860	21,328	22,390
Total	88,250	157,530	166,110	270,085	210,990

<sup>a</sup>"-" indicates the absence of imports.

<sup>b</sup>n.e.s. = not elsewhere specified.

TABLE 24a. IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND QUANTITY, CHEMICALS SALES YEARS, a 1974-75 TO 1976-77<sup>b</sup>

Item <sup>c</sup>	1974-75	1975-76	1976-77
- thousand pounds -			
Aldrin, Technical	15	-	-
D.D.T.	-	32	-
Derivatives of Hydrocarbon n.e.s.	56,955	95,868	69,883
2,4-Dichlorophenoxyacetic Acid, Technical	929	893	1,815
Methyl Chlorophenoxyacetic Acid (MCP or MCPA)	2,698	3,660	3,348
Dithiocarbamates	2,708	5,600	6,954
D.D.T. Dusts, Solutions and Powders	765	-	40
Synthetic Organics n.e.s., Botanicals and Arsenicals, Formulated	414	370	533
Dithiocarbamates, Formulated	2,708	1,277	1,194
Mercurial Fungicides (except seed treatments)	152	53	211
Fungicides n.e.s. (except seed treatments)	3,316	2,196	2,712
Organic Mercurial Seed Treatments	-	35	12
Other Agricultural Dusts and Sprays (except herbicides)	1,237	815	949
Herbicides Based on Chlorate, Borate or 2,4,5-T	2,460	1,593	1,509
2,4-D Ester and Amine Dusts and Formulates	5,822	5,096	855
Herbicides n.e.s.	62,784	81,245	97,519
Insecticides and Rodenticides n.e.s.	27,802	21,494	23,456
Total	170,765	220,227	210,998

<sup>a</sup>Chemicals sales year in from October 1 to September 30.

<sup>b</sup>"—" indicates the absence of imports.

<sup>c</sup>n.e.s. = not elsewhere specified.

TABLE 25. EXPORTS OF TWINE BY COUNTRY OF DESTINATION, VALUE AND QUANTITY,  
AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Country	Average 1969-73	1974	1975	1976	1977
United States					
\$000 000 lb	1,698 9,681	2,244 4,655	1,440 2,278	1,063 2,252	1,708 2,933
EEC6					
\$000 000 lb	21 11	59 53	74 39	63 43	156 98
United Kingdom					
\$000 000 lb	14 35	40 32	12 12	147 69	74 137
Panama					
\$000 000 lb	21 13	43 40	40 26	72 34	88 39
South Africa					
\$000 000 lb	15 7	22 7	4 1	3 1	10 3
Japan					
\$000 000 lb	4 3	13 18	27 21	13 4	6 3
Oceania <sup>a</sup>					
\$000 000 lb	14 7	70 15	33 13	23 9	15 5
Total (All Countries)					
\$000 000 lb	1,898 9,813	2,536 4,881	2,362 3,486	1,506 2,531	2,205 3,584

<sup>a</sup>Oceania includes Australia, New Zealand, and their dependencies.

TABLE 26. IMPORTS OF TWINE BY COUNTRY OF ORIGIN, VALUE AND QUANTITY,  
AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Country	Average 1969-73	1974	1975	1976	1977 <sup>a</sup>
United States					
\$000	2,441	9,828	8,693	4,843	4,885
000 1b	9,071	20,851	13,472	5,942	9,956
United Kingdom					
\$000	689	1,905	1,728	681	431
000 1b	1,481	4,401	2,785	1,500	336
EEC6					
\$000	354	5,611	11,952	941	1,459
000 1b	2,160	10,640	18,947	2,121	2,909
Brazil					
\$000	964	11,326	6,954	2,211	5,874
000 1b	8,740	23,542	12,638	9,988	24,424
Portugal					
\$000	1,263	796	1,611	418	419
000 1b	9,601	1,138	2,818	1,281	677
Mexico					
\$000	1,984	10,306	970	2,941	4,885
000 1b	16,193	23,155	1,724	15,306	21,970
Tanzania					
\$000	1,386	5,786	2,340	2,476	1,578
000 1b	12,387	16,774	4,840	15,236	8,191
Haiti					
\$000	682	3,496	1,626	45	-
000 1b	7,478	8,011	3,189	145	-
Total (All Countries)					
\$000	11,144	55,061	45,014	16,106	22,565
000 1b	71,588	108,512	60,413	55,579	70,865

<sup>a</sup>"-" indicates the absence of imports.

TABLE 27. EXPORTS OF TWINE TO ALL COUNTRIES, VALUE AND QUANTITY, AVERAGE  
1969-73 - CALENDAR YEARS 1974-77

Item	Average 1969-73	1974	1975	1976	1977
Baler Twine					
\$000	1,622	1,486	545	319	705
000 1b	8,590	3,767	1,075	1,214	2,302
Binder Twine					
\$000	136	20	10	5	4
000 1b	928	41	18	19	2
Cordage and Twine n.e.s. <sup>a</sup>					
\$000	140	1,030	1,277	1,168	1,496
000 1b	295	1,073	2,393	1,298	1,280
Total					
\$000	1,898	2,536	2,362	1,506	2,205
000 1b	9,813	4,881	3,486	2,531	3,584

<sup>a</sup>n.e.s. = not elsewhere specified.

TABLE 28. IMPORTS OF TWINE FROM ALL COUNTRIES, VALUE AND QUANTITY, AVERAGE  
1969-73 - CALENDAR YEARS 1974-77

Item	Average 1969-73	1974	1975	1976	1977
Baler Twine					
\$000	8,163	49,628	40,846	10,155	15,917
000 1b	66,670	112,902	73,773	49,460	64,142
Binder Twine					
\$000	130	671	445	224	248
000 1b	1,191	1,716	876	1,566	1,416
Cordage and Twine n.e.s. <sup>a</sup>					
\$000	2,851	4,762	3,723	5,727	6,346
000 1b	3,727	1,663	1,633	4,553	5,307
Total					
\$000	11,144	55,061	45,014	16,106	22,565
000 1b	71,588	116,251	76,312	55,579	70,865

<sup>a</sup>n.e.s. not elsewhere specified.

TABLE 29 - EXPORTS OF TRACTOR AND IMPLEMENT TIRES BY COUNTRY OF DESTINATION,  
VALUE AND UNITS, AVERAGE 1969-73 - CALENDAR YEARS 1974-77<sup>d</sup>

Country	Average 1969-73 <sup>b</sup>	1974	1975	1976	1977
United States					
\$000	1,643	1,039	3,602	7,991	1,579
Units	16,371	9,830	30,650	99,466	15,299
EEC <sup>c</sup>					
\$000	34	0	46	2	15
Units	415	0	50	8	296
Belize (British Honduras)					
\$000	4	5	9	1	-
Units	155	230	70	24	-
Jamaica					
\$000	8	1	1	11	7
Units	71	25	5	80	82
Oceania <sup>c</sup>					
\$000	12	3	21	5	80
Units	82	20	95	22	452
Cuba					
\$000	n.a.	89	72	-	-
Units	n.a.	3,550	2,889	-	-
Total (All Countries)					
\$000	1,780	1,137	3,751	8,059	2,077
Units	17,908	13,655	33,759	100,193	17,371

<sup>a</sup>"-" indicates the absence of imports.

<sup>b</sup>n.a. not available.

<sup>c</sup>Oceania includes Australia, New Zealand, and their dependencies.

TABLE 30. IMPORTS OF TRACTOR AND IMPLEMENT TIRES BY COUNTRY OF ORIGIN,  
VALUE, AND UNITS, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Country	Average 1969-73 <sup>a</sup>	1974	1975 <sup>b</sup>	1976	1977
United States					
\$000	4,700	16,129	19,523	13,347	14,850
Units	132,845	330,128	308,619	220,067	293,260
EEC <sup>6</sup>					
\$000	85	89	393	103	187
Units	42,926	1,020	2,065	813	2,375
Japan					
\$000	12	4	20	3	27
Units	270	1,024	220	7	680
United Kingdom					
\$000	13	192	9	16	5
Units	201	389	116	324	38
Sweden					
\$000	40	83	108	29	28
Units	4,077	6,547	3,361	148	139
Taiwan					
\$000	n.a.	46	-	17	40
Units	n.a.	12,100	-	19	17,800
Total (All Countries)					
\$000	4,857	16,555	20,241	13,608	15,157
Units	174,683	351,208	314,381	222,880	317,470

<sup>a</sup>n.a. not available.

<sup>b</sup>"-" indicates the absence of imports.

TABLE 31 - AVERAGE UNIT VALUES OF SELECTED AGRICULTURAL PRODUCTION INPUTS EXPORTED  
TO ALL COUNTRIES, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Inputs	Unit	Average 1969-73	1974	1975	1976	1977
Agricultural Chemicals	\$/cwt	n.a. <sup>a</sup>	146.31	147.54	147.54	151.45
Fertilizers and Materials	\$/ton	25.19	37.44	51.71	54.08	58.07
Baler Twine	\$/lb	.22	.41	.51	.26	.31
All Twine	\$/lb	.23	.52	.68	.60	.62
Tractor and Implement Tires	\$/tire	99.40	88.86	121.60	80.43	119.60
Wheel Tractors, New and Used	\$/machine	6,324	12,820	15,695	16,713	15,108
Combines (grain)	\$/machine	9,839	12,671	17,627	19,274	22,092
Cultivators	\$/machine	794	1,114	1,531	1,746	2,206
Mowers	\$/machine	493	525	792	771	870

<sup>a</sup>n.a. = not available.

TABLE 32. AVERAGE UNIT VALUES OF SELECTED AGRICULTURAL PRODUCTION INPUTS IMPORTED FROM ALL COUNTRIES, AVERAGE 1969-73 - CALENDAR YEARS 1974-77

Inputs	Unit	Average 1969-73	1974	1975	1976	1977
Agricultural Chemicals	\$/cwt	41.79	50.57	66.64	45.84	68.16
Fertilizers and Materials	\$/ton	9.37	18.00	34.49	35.44	33.42
Baler Twine	\$/lb	.12	.44	.55	.21	.25
All Twine	\$/lb	.16	.46	.58	.29	.32
Tractor and Implement Tires	\$/tire	27.81	47.00	63.67	61.06	47.74
Combines (grain)	\$/machine	7,535	10,459	13,366	15,167	18,421
Wheel Tractors, New	\$/machine	4,554	6,336	8,436	9,626	11,424
Used Tractors	\$/machine	4,784	8,161	10,510	12,244	10,426
Tractor Cabs	\$/machine	340	573	706	682	782

TABLE 33. NET TRADE BALANCE IN SELECTED AGRICULTURAL PRODUCTION INPUTS, CANADA,  
AVERAGE 1969-73 - CALENDAR YEARS 1974-77a

Production Input	Average 1969-73*	1974	1975	1976	1977
- thousand dollars -					
Farm Machinery					
Imports	371,033	771,877	1,066,399	1,175,795	1,175,521
Exports	217,875	398,467	542,113	568,758	588,894
Net Trade Balance	(153,158)	(373,410)	(524,286)	(607,037)	(586,627)
Agricultural Chemicals					
Imports	36,888	79,665	110,703	123,808	143,812
Exports	n.a.b	6,656	16,374	14,768	10,538
Net Trade Balance	(36,888)	(73,009)	(94,329)	(109,040)	(133,274)
Fertilizers and Materials					
Imports	36,876	72,775	138,810	112,152	123,067
Exports	245,022	431,713	478,276	577,234	730,319
Net Trade Balance	208,146	358,938	339,466	465,082	607,252
All Twine					
Imports	11,144	55,061	45,014	16,106	22,565
Exports	1,898	2,536	2,362	1,506	2,205
Net Trade Balance	(9,246)	(52,525)	(42,652)	(14,600)	(20,360)
Tractor and Implement Tires					
Imports	4,857	16,555	20,241	13,608	15,157
Exports	1,780	1,137	3,751	8,059	2,077
Net Trade Balance	(3,077)	(15,418)	(16,490)	(5,549)	(13,080)
Total					
Imports	460,798	995,933	1,381,167	1,441,469	1,480,122
Exports	466,575	840,509	1,042,876	1,170,325	1,334,033
Net Trade Balance	5,777	(155,424)	(338,291)	(271,114)	(146,089)

aFigures in brackets indicate a deficit.

b n.a. = not available.

SELECTED AGRICULTURAL PRODUCTION INPUT TERMS

Farm Machinery (Exports and Imports):

Soil Preparation, Seeding and Fertilizing Machinery:

Disc plows and harrow plows, one-way discs, tiller combines, and parts  
Plows and parts, n.e.s.<sup>2</sup>  
Drag and spring tooth harrows and parts  
Disc harrows and parts  
Rotary tillers, agricultural, and parts  
Planters, transplanters and parts  
Grain drills and combination grain and fertilizer drills and parts  
Manure spreaders and parts  
Soil preparation, seeding and fertilizing machinery, and parts n.e.s.

Cultivation and Crop Protection Machinery:

Cultivators, weeders and parts  
Sprayers and other crop protection machinery, equipment, and parts n.e.s.

Haying, harvesting, threshing and related machinery:

Mowers and parts  
Dump rakes, side rakes, tedders, and parts  
Hay and straw balers, and parts  
Combination mower-conditioners  
Haying machinery and parts n.e.s.  
Swathers or windrowers and parts  
Grain and corn binders, and ensilage and forage harvesters, and parts  
Potato harvesting machinery and parts  
Combine reaper-threshers  
Parts, attachments, and accessories for combine reaper-threshers  
Tobacco harvesting machinery and parts  
Harvesting, threshing, and related machinery, and parts n.e.s.

Machines for preparing crops for market or use:

Feed cutters, grinders, crushers or rollers, and parts  
Machines for preparing fruit, vegetables, flowers or nursery stock for  
market or use, and parts  
Machines and equipment for preparing crops for market or use, and parts  
n.e.s.

Dairy Farm, Poultry Farm, and Apiary Machinery and Equipment:

Milling machines and parts  
Cream separators, and parts

<sup>2</sup>n.e.s. = not elsewhere specified.

Farm milk coolers and parts  
Farm dairy machinery, equipment and parts n.e.s.  
Incubators, brooders and parts  
Poultry farm and apiary machinery, equipment and parts n.e.s.

Other Agricultural Machinery and Equipment:

Grain loaders and elevators and parts  
Farm loaders, attachments for tractors  
Cattle stalls, pens, stanchions, and parts  
Feeders, feed cookers and tank heaters, and parts  
Agricultural edge tools and blades  
Farm irrigation systems and parts  
Agricultural machinery, equipment, and parts, n.e.s.

Tractors:

Wheel tractors, new and used, and parts  
Tractor engines and engine parts  
Tractor cabs  
Tractors n.e.s., parts and accessories for tractors n.e.s.

Fertilizers (Exports and Imports):

Ammonia, Anhydrous  
Urea  
Ammonium Nitrate  
Sodium Nitrate, Calcium Cyanamide, and Nitrogen solutions  
Ammonium Sulphate  
Nitrogenous fertilizers, mineral or chemical, n.e.s.  
Superphosphate, 22 percent or less P<sub>2</sub>O<sub>5</sub>  
Superphosphate, more than 22 percent P<sub>2</sub>O<sub>5</sub>  
Phosphatic fertilizers n.e.s.  
Potassium Chloride  
Potassium Sulphate  
Potassic fertilizers n.e.s.  
Prepared fertilizer mixtures  
Fertilizers and fertilizer materials n.e.s.  
Phosphate rock

Agricultural Chemicals (Imports):

Aldrin, technical  
DDT, technical  
Derivatives of Hydrocarbons n.e.s.  
2, 4 - Dichlorophenoxyacetic acid, (2, 4-D)  
Methyl Chlorophenoxyacetic acid (MCP or MCPA)  
Dithiocarbamates  
DDT dusts, solutions and powders  
Synthetic organics n.e.s., botanicals and arsenicals, formulated  
Dithiocarbamates, formulated  
Mercurial fungicides (except seed treatments)  
Fungicides n.e.s. (except seed treatments)  
Organic mercurial seed treatments

Other agricultural dusts and sprays (except herbicides)  
Herbicides based on Chlorate, Borate or 2, 4, 5-T  
2, 4-D Ester and Amine dusts and formulations  
Herbicides n.e.s.  
Insecticides and rodenticides n.e.s.

Agricultural Chemicals (Exports):  
Agricultural chemicals, formulated, insecticides and rodenticides

Tires

Tractor and implement tires, pneumatic, n.e.s.

Twine (Imports):

Baler twine  
Binder twine  
Cotton cordage and twine  
Paper cordage and twine  
Cordage and twine of man-made fibre  
Cordage and twine n.e.s.

Twine (Exports):

Baler twine  
Binder twine  
Cordage, twine, and rope n.e.s.

APPENDIX B

ANNUAL AVERAGE EXCHANGE RATES OF CURRENCIES OF MAJOR TRADING COUNTRIES IN  
MANUFACTURED AGRICULTURAL PRODUCTION INPUTS IN TERMS OF CANADIAN DOLLARS,  
1972 TO 1977

Country	Currency Unit	1972	1973	1974	1975	1976	1977
Australia	Dollar	1.18210	1.42320	1.40870	1.33300	1.20740	1.18030
Belgium	Franc	0.02251	0.02581	0.02515	0.02773	0.02556	0.02971
Chile	Peso	0.05675	0.00276	0.00147	-a	0.74120	0.51580
Denmark	Krone	0.14270	0.16640	0.16080	0.17740	0.16320	0.17710
France	Franc	0.19650	0.22570	0.20350	0.23770	0.20670	0.21650
Germany, West	D. Mark	0.31080	0.37820	0.37850	0.41440	0.39200	0.45860
Italy	Lira	0.00169	0.00172	0.00150	0.00156	0.00119	0.00121
Japan	Yen	0.00327	0.00369	0.00335	0.00343	0.00332	0.00398
Morocco	Dirham	0.21170	0.23560	0.23310	0.24250	0.23510	0.25350
Netherlands	Florin	0.30870	0.36030	0.36440	0.40310	0.37340	0.43360
New Zealand	Dollar	1.18650	1.36380	1.37200	1.23700	0.98180	1.03280
Peru	Sol	0.02506	0.02535	0.02259	0.02328	0.01843	0.01321
Portugal	Escudo	0.03635	0.03893	0.03880	0.04004	0.03279	0.02790
South Africa	Rand	1.28600	1.44360	1.43980	1.38990	1.13410	1.22310
Sweden	Krona	0.20830	0.23010	0.22060	0.24560	0.24490	0.23780
Switzerland	Franc	0.25940	0.31750	0.32950	0.39420	0.44200	0.44440
United Kingdom	Pound	2.47970	2.45326	2.28840	2.25944	1.86070	1.85710
United States	Dollar	0.99050	1.00006	0.97796	1.01729	1.07070	1.06350

<sup>a</sup>Chile changed from the escudo to the peso on September 30, 1975.

Source: Bank of Canada, nominal quotations.

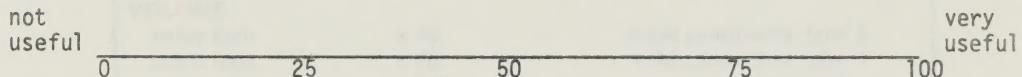


CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS, 1945-75

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## CONVERSION FACTORS FOR METRIC SYSTEM

Imperial units	Approximate conversion factor	Results in:
<b>LINEAR</b>		
inch	x 25	millimetre (mm)
foot	x 30	centimetre (cm)
yard	x 0.9	metre (m)
mile	x 1.6	kilometre (km)
<b>AREA</b>		
square inch	x 6.5	square centimetre ( $\text{cm}^2$ )
square foot	x 0.09	square metre ( $\text{m}^2$ )
acre	x 0.40	hectare (ha)
<b>VOLUME</b>		
cubic inch	x 16	cubic centimetre ( $\text{cm}^3$ )
cubic foot	x 28	cubic decimetre ( $\text{dm}^3$ )
cubic yard	x 0.8	cubic metre ( $\text{m}^3$ )
fluid ounce	x 28	millilitre (ml)
pint	x 0.57	litre (l)
quart	x 1.1	litre (l)
gallon	x 4.5	litre (l)
<b>WEIGHT</b>		
ounce	x 28	gram (g)
pound	x 0.45	kilogram (kg)
short ton (2000 lb)	x 0.9	tonne (t)
<b>TEMPERATURE</b>		
degrees Fahrenheit	(°F-32) x 0.56 or (°F-32) x 5/9	degrees Celsius (°C)
<b>PRESSURE</b>		
pounds per square inch	x 6.9	kilopascal (kPa)
<b>POWER</b>		
horsepower	x 746 x 0.75	watt (W) kilowatt (kW)
<b>SPEED</b>		
feet per second	x 0.30	metres per second (m/s)
miles per hour	x 1.6	kilometres per hour (km/h)
<b>AGRICULTURE</b>		
gallons per acre	x 11.23	litres per hectare (l/ha)
quarts per acre	x 2.8	litres per hectare (l/ha)
pints per acre	x 1.4	litres per hectare (l/ha)
fluid ounces per acre	x 70	millilitres per hectare (ml/ha)
tons per acre	x 2.24	tonnes per hectare (t/ha)
pounds per acre	x 1.12	kilograms per hectare (kg/ha)
ounces per acre	x 70	grams per hectare (g/ha)
plants per acre	x 2.47	plants per hectare (plants/ha)



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